

AMENDMENTS TO THE SPECIFICATION

-Please amend the paragraph beginning on page 2, line ¹⁰8 (i.e., after the title: SUMMARY OF INVENTION) as follows:

Now in accordance with the present invention, a method is provided for phase noise suppression in a receiver section of an OFDM based WLAN operating in accordance with IEEE standard 802.11(a). The null subcarrier set S_N from Fast Fourier Transform (FFT) is used to estimate ICI (Inter-carrier interference) plus noise energy, and the pilot subcarrier set S_P from Fast Fourier Transform is used to estimate CPE (Common Phase Error). These estimates are applied to the Minimum Mean Square Error (MMSE) equalization of the data subcarrier set S_P . Preferably, the said pilot-carrier subcarrier S_P set is taken from MMSE (minimum-mean squared-equalization) equalization and data detection block of the circuitry as a first decision and fed back in a loop to the CPE estimator, to further improve the CPE estimate.

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